

Application Serial No. 10/594,466
Reply to office action of December 31, 2008

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PATENT
Docket: CU-5130

Amendments To The Claims

The listing of claims presented below will replace all prior versions, and listings, of claims in the application.

Listing of claims:

1. **(Currently amended)** A Digital Television (DTV) receiver, comprising:
 - a receiving **unit means** for receiving a transmission signal including general data and robust data and converting the transmission signal into a base-band signal;
 - an equalizing **unit means** for determining a symbol level of the transmission signal;
 - a trellis decoding **unit means** for performing trellis decoding on a symbol of the determined level;
 - a nonsystematic Reed Solomon (NRS) decoding **unit means** for performing NRS decoding on the trellis-decoded robust data and ~~correcting an~~ **for performing robust data error correction on the trellis-decoded robust data**; and
 - a restoring **unit means** for restoring a digital video data stream with respect to the trellis-decoded general data and the NRS-decoded robust data.
2. **(Currently amended)** The DTV receiver as recited in claim 1, wherein the restoring **unit means** includes:
 - a packet formatting **unit means** for reconstructing a packet with respect to the robust data;
 - a data deinterleaving **unit means** for deinterleaving the reconstructed robust data;
 - an RS decoding **unit means** for correcting a forward error with respect to the general data and the robust data; and
 - a data derandomizing **unit means** for derandomizing the RS-decoded data.
3. **(Currently amended)** The DTV receiver as recited in claim 2, wherein the restoring **unit means** further includes
 - a controller for computing delay time for NRS decoding and packet

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reconstruction with respect to the robust data, and

the data derandomizing unit means performs derandomization in consideration of the delay time.

4. (Currently amended) A Digital Television (DTV) receiving method, comprising ~~the steps of:~~

receiving a) ~~receiving~~ a transmission signal including general data and robust data and converting the transmission signal into a base-band signal;

determining b) ~~determining~~ a symbol level of the transmission signal;

performing c) ~~performing~~ trellis decoding on a symbol of the determined level;

performing d) ~~performing~~ nonsystematic Reed Solomon (NRS) decoding on the trellis-decoded robust data and ~~correcting an~~ performing robust data error correction on the trellis-decoded robust data; and

restoring e) ~~restoring~~ a digital video data stream with respect to the trellis-decoded general data and the NRS-decoded robust data.

5. (Currently amended) The method as recited in claim 4, wherein ~~the step e)~~ includes the steps of restoring the digital video data stream comprises:

reconstructing e1) ~~reconstructing~~ a packet with respect to the robust data;

deinterleaving e2) ~~deinterleaving~~ the reconstructed robust data;

performing e3) ~~performing~~ forward error correction with respect to the general data and the robust data; and

derandomizing e4) ~~derandomizing~~ the RS-decoded data.

6. (Currently amended) The method as recited in claim 5, wherein ~~the step e)~~ further includes a step of restoring the digital video data stream further comprises:

computing e5) ~~computing~~ delay time for NRS decoding and packet reconstruction with respect to the robust data, and

derandomization is performed in consideration of the delay time in the ~~step e4)~~ derandomizing of the RS-decoded data.